



PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

URA et al.

Group Art Unit: 3749

Application No.: 10/721,256

Examiner: Kathryn O'Malley

Filed: November 26, 2003

Attorney Dkt. No.: 8215.135

For: MOISTURING HAIRDRESSING APPARATUS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AFFIDAVIT UNDER 37 CFR 1.131

I, Yoshihisa Ura, hereby certify as follows:

1. I am the one of the applicants for the above-identified patent application, U.S. Patent Application No. 10/721,256.
2. I have first-hand knowledge of the documents in the Table of Exhibits that is attached to this Affidavit.
3. The English labels added to the drawings shown in the Table of Exhibits are a fair and accurate translation of the associated Japanese text.
4. Exhibit 1 of the Table of Exhibits is the minutes of a meeting held February 8, 2002 as recorded February 12, 2002. Exhibit 1 describes the apparatus, including the characteristic that steam is supplied through the detachable hand piece and an ion injecting unit is included in the hand piece
5. Exhibit 2 of the Table of Exhibits is a design checklist for invention sent from TECOM Ltd to Takigawa Concentration Ltd on May 8, 2002. Exhibit 2 shows a basic sketch of the apparatus including the detachable hand piece and its connection with the steam generating unit for the purpose of supplying steam from the steam generating unit to the detachable hand piece, the sketch and information also indicate that an ion injecting unit is co-located in the hand piece with the steam injection unit.

6. Exhibit 3 of the Table of Exhibits includes 3 pages of drawings created on June 10, 2002 showing various aspects of the hand piece and steam generating unit. Specifically, Exhibit 3 includes detailed views of the hand piece and, the incorporation of the steam pipe into the hand piece as well as the incorporation of an ion injecting unit in the hand piece, Exhibit 3 also shows the trigger switch and the continuous operating switch (per claim 2) on the rear of the hand piece housing. Figure 3 also shows the main steam generating unit including the control panel and operating unit and a mounting fixture for attaching the hand piece to the main steam generating unit.
7. Exhibit 4 of the Table of Exhibits is one drawing page created on June 27, 2002. Exhibit 4 shows a detailed drawing of the main steam generating unit including the control panel, LED functional display, and the operating unit.
8. Exhibit 5 of the Table of Exhibits is a detailed drawing of the hand unit created on July 10, 2002. Exhibit 5 shows a detailed drawing of the hand piece, including the steam injecting unit as co-located with the ion injecting unit in the hand piece. Exhibit 5 also shows the connection point on the hand piece for the hose from the steam generating unit so that the hand piece is in hydraulic communication with the steam generating unit.
9. The following table is provided for the Examiner's convenience and specifically addresses each one of the claimed components as described below:

Claim Element	Applicable Exhibits/Documents
1. A moisturizing hair dressing apparatus	Exhibits 1-5 show and describe the moisturizing hair dressing apparatus of the current invention. Exhibit 1 generally describes the apparatus; Exhibit 2 shows a sketch of the apparatus and briefly describes the purpose of the apparatus; Exhibit 3 shows the basic drawings of both the hand piece and main unit of the apparatus; Exhibit 4 shows a detailed drawing of the main unit of the apparatus; and Exhibit 5 shows a detailed drawing of the hand unit of the apparatus.
A moisturizing hair dressing apparatus comprising a main unit for generating steam for moisturizing ones hair.	Exhibits 1, 2 and 4 specifically show and describe a main unit for generating steam to moisturize one's hair. Exhibit 1 generally explains the purpose of the apparatus, including the main unit;

(Claim component table continued)	Exhibit 2 shows a basic sketch of the apparatus and describes, among other things, a sub heater to heat the water to generate steam; Exhibit 4 shows the main steam generating unit in near final form.
A moisturizing hair dressing apparatus comprising a hand piece that is moveably attached to the main unit.	Exhibits 1-3 and 5 show and describe a hand piece that is moveably attached to the main unit. Exhibit 1 includes a description of the apparatus, including the detachable hand piece; Exhibit 2 shows a sketch of the main unit and hand piece; Exhibit 3 shows incipient drawings of the hand piece including the attaching means connecting the hand piece to the main unit; and Exhibit 5 shows a detailed drawing of the hand piece as detached from the main unit.
A moisturizing hair dressing apparatus comprising a steam injecting unit supplied by the main unit.	Exhibits 1-3 and 5 show and describe a steam injecting unit in the hand piece that is supplied with steam from the main unit. Exhibit 1 describes the apparatus, including the characteristic that steam is supplied from a main unit to a steam injection unit in the detachable hand piece; Exhibit 2 shows a basic sketch of the apparatus including the detachable hand piece and its connection with the main unit for the purpose of supplying steam from the main unit to the detachable hand piece; Exhibit 3 shows more detailed drawings of the hand piece and, includes the incorporation of the steam pipe into the hand piece, Exhibit 3 further shows the hose connecting the hand piece with the main unit for supplying steam from the main unit through the hose to the hand piece; Exhibit 5 shows a detailed drawing of the hand piece, including the attachment of the hose from the main unit to the hand piece, the hand piece including the steam injecting unit.
A moisturizing hair dressing apparatus comprising a negative ion injecting unit for injecting negative ions.	Exhibits 1-3 and 5 show and describe the capability of the hand piece to inject negative ions. Exhibit 1 describes the capabilities of the apparatus, including the ion injecting capability; Exhibit 2 shows the hand piece and describes the ion generating circuit; Exhibit 3 shows the ion


(Claim component table continued)	generating and injecting units in the hand piece; and Exhibit 5 shows a detailed drawing of the hand piece including the ion generating and injecting units.
The hand piece of the moisturizing hair dressing apparatus can inject either steam, negative ions, or simultaneously inject both steam and negative ions can be selected.	Exhibits 1-3 and 5 show and describe the capability of the hand piece to inject either steam or negative ions. Exhibit 1 describes the capabilities of the apparatus, including the ion and steam injecting capability, as well as the capability of the apparatus to inject a combination of steam and ions; Exhibit 2 shows the hand piece and briefly describes the ion generating circuit and the steam injecting capability as well as the capability of the apparatus to inject a combination of steam and ions; Exhibit 3 shows the ion generating and injecting units, and the steam injecting unit in the hand piece; and Exhibit 5 shows a detailed drawing of the hand piece including the steam injecting unit and the ion generating and injecting units.
2. The moisturizing hair dressing apparatus comprising a switching mechanism for selecting either a first mode of injecting at least one of steam and negative ions while a switch remains held, or a second mode of selecting continuous injection or suspension of injection by another touch of the switch.	Exhibits 2, 3 and 5 specifically show and describe a mode in which a trigger switch (called an operation switch in Exhibit 2) is selected for selectively injecting either steam or negative ions while the switch remains held. Exhibits 3 and 5 also disclose and additional switch on rear housing of the hand piece which allows an operator to select a second mode of operation that includes a continuous injection or suspension of injection by another touch of the switch.
3. A treatment apparatus comprising a steam generating unit.	Exhibits 1-4 show and describe a treatment apparatus comprising a steam generating unit. Exhibit 1 describes the treatment apparatus including the steam generating unit; Exhibit 2 shows a sketch of the apparatus and briefly describes the steam generating capability and the purpose of the apparatus, Exhibit also specifically references the sub heater as a means of generating

(Claim component table continued)	steam; Exhibit 3 shows the basic drawings of both the hand piece and the main steam generating unit; Exhibit 4 shows a detailed drawing of the main steam generating unit.
A treatment apparatus comprising an operating unit for controlling the steam generating unit.	Exhibits 2-4 show and describe the operating unit. Exhibit 2 describes the function of the operating unit; Exhibit 3 shows the operating as a part of the main unit; and Exhibit 4 also shows the operating unit in the upper portion of the main unit.
A treatment apparatus comprising a hand piece moveable relative to the steam generating unit.	Exhibits 1-3 and 5 show and describe a hand piece that is moveably attached to the steam generating unit. Exhibit 1 includes a general description of the apparatus, including the detachable hand piece; Exhibit 2 shows a sketch of the steam generating unit and detachable hand piece; Exhibit 3 shows incipient drawings of both the hand piece and the steam generating unit including the means of attaching the hand piece to the main unit; and Exhibit 5 shows a detailed drawing of the hand piece, including the ion and steam injecting units housed in a common housing.
A treatment apparatus comprising an ion generating unit positioned in the hand piece and controlled by the operating unit.	Exhibits 2, 3, and 5 show and describe an ion generating unit positioned in the hand piece and controlled by the operating unit. Exhibit 2 describes the ion generating unit and the operating unit. Exhibits 3 shows the ion generating unit positioned in the hand piece and connected to the steam generating unit, which includes the operating unit; Exhibit 5 shows the ion generating unit in greater detail as well as the connection point for the cord running from the steam generating unit to the hand piece.
A treatment apparatus comprising a trigger switch positioned in the hand piece in electrical communication with the operating unit.	Exhibits 2, 3 and 5 show and describe the trigger switch positioned in the hand piece and controlled by the operating unit. Exhibit 2 describes the operating unit and the trigger switch. Exhibits 3 and 5 show the trigger switch as positioned in the hand piece.

(Claim component table continued)	
<p>A treatment apparatus comprising an applicator head positioned in the hand piece, the applicator head further comprising an ion injection unit in electrical communication with the ion generating unit and a steam injection unit.</p>	<p>Exhibits 1-3 and 5 show and describe an applicator head in the hand piece and the capability of the the applicator head to inject ions, Exhibits 1-3 and 5 also show and describe electrical communication between the ion generating unit in the hand piece and the steam generating unit. Exhibit 1 generally describes the capabilities of the apparatus, including the ion injecting capability; Exhibit 2 shows the hand piece and describes the ion generating circuit as well as the connection between the hand piece and the main unit; Exhibit 3 shows the ion generating and injecting units in the hand piece and shows the communication between the hand piece, which includes the applicator head, and the steam generating unit; and Exhibit 5 shows a detailed drawing of the hand piece including the ion injecting unit in communication with the ion generating unit and the connection point for the cord that connects the ion generating unit with the steam generating unit.</p>
<p>A treatment apparatus comprising an applicator head positioned in the hand piece, the applicator head further comprising a steam injection adjacent to the ion injecting unit, the steam injecting unit being in hydraulic communication with the steam generating unit.</p>	<p>Exhibits 1-3 and 5 show and describe the hand piece steam injecting unit as being supplied with steam from the steam generating unit. The steam injecting unit is also shown and described as adjacent to the ion injecting unit. Exhibit 1 describes the apparatus, including the characteristic that steam and ions are supplied through the detachable hand piece; Exhibit 2 shows a basic sketch of the apparatus including the detachable hand piece and its connection with the steam generating unit for the purpose of supplying steam from the steam generating unit to the detachable hand piece, the sketch and information also indicate that an ion injecting unit is co-located in the hand piece with the steam injection unit; Exhibit 3 shows more detailed drawings of the hand piece and, includes the incorporation of the steam pipe into the hand piece as well as the incorporation of an ion injecting unit in the hand piece, Exhibit 3 also shows a hose connection between the hand piece and the steam generating unit so that the hand piece is in hydraulic</p>

(Claim component table continued)	communication with the steam generating unit; Exhibit 5 shows a detailed drawing of the hand piece, including the steam injecting unit as co-located with the ion injecting unit in the hand piece and the connection point for the hose from the steam generating unit so that the hand piece is in hydraulic communication with the steam generating unit.
Wherein the operating unit selectively controls the ion injection unit so that activating the trigger switch causes the operating unit to direct the application head to emit one of steam, ions, or a combination of steam and ions.	Exhibits 1-5 show and describe the function of the apparatus including the capability to selectively actuate a trigger switch to inject either steam, ions or a combination of steam and ions, Exhibits 1-5 also show that the treatment apparatus has a steam generating unit that includes an operating unit. Exhibit 1 describes the apparatus, including the characteristic that steam is supplied through the detachable hand piece and an ion injecting unit is included in the hand piece; Exhibit 2 shows a basic sketch of the apparatus including the detachable hand piece and its connection with the steam generating unit for the purpose of supplying steam from the steam generating unit to the detachable hand piece, the sketch and information also indicate that an ion injecting unit is co-located in the hand piece with the steam injection unit as well as an operating unit for coordinating and controlling the process. Exhibit 3 includes detailed views of the hand piece and, the incorporation of the steam pipe into the hand piece as well as the incorporation of an ion injecting unit in the hand piece, Exhibit 3 further shows the trigger switch as well as the operating unit and the connection between the hand piece and the steam generating unit.; Exhibit 4 shows the steam generating unit which incorporates the operating unit; Exhibit 5 shows a detailed drawing of the hand piece, including the steam injecting unit and the ion generating and injecting units all co-located in the hand piece, Exhibit 5 further shows the trigger switch used to initiate operation of the apparatus.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


YOSHIHISA URA

Dated: 11/22/04

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TABLE OF EXHIBITS

Exhibit/ Document #	Document Title and Description	Date
1	Minutes of a meeting February 8, 2002, as recorded February 12, 2002 – Explains the basic design of the Moisturizing Apparatus.	February 8, 2002
2	Design checklist for invention sent from TECOM Ltd to Takigawa Concentration Ltd – provides basic sketch of the apparatus and gives additional detail regarding product design and function.	May 8, 2002
3	Incipient detailed drawings of handpiece.	June 10, 2002
4	Upgraded drawings showing main unit.	June 27, 2002
5	Upgraded drawings showing handpiece.	July 10, 2002

doc 1

管理No. 840202016

(1 / 2)

MCM

会議録

Description Date: Feb. 12, 2002
作成日: '02年 2月12日

会議名: KeUPPER OEM及びヘアケア用スチーマー打ち合わせ

Meeting
Date

日時 2月 8日 (金) 11:00 ~ 4:30 場所: ディード 矢板工場 大会議室

出席者: [滝川]: 浦 Feb. 8, 2002

[ディード]: 星、安永、高井、沼尾、井旗、前田

敬称略

承認

'02年 2月13日

高井正外志

配布先: 出席者全員・(林田社長、森山工場長

記録者 前田 賢一

議 事

No.	項 目	内 容	結 論
1	KeUPPER OEM	・ヒート(金沢、彦田) ・デザイン元: ID NET ・ヒート価格設定予定: 250,000- 条件: 発注単位 1,000 台、一括納入 店販用として考えている。 高級感をだすために、LCD による表示も考 いる。	2/14 浦部長打ち合 せ予定
2	ヘアケア用スチ- Steamer for Hair Care	概要を説明された。(浦部長) フェイスルを改良して行いたい。 水道水を使用する構造 小型のタケで余熱してスチーム出口で加熱 (スチームアイロンをイメージ) 付カウタを購入して欲しい。	手配する。(井旗)
		名古屋のお店で使用している装置があるの で装置を見せてもらう。	2/28 予定(前田)
3	その他		
	1) KeUPPER LED 変更 について	・KeUPPER で使用している LED を円筒型に変 更したい旨を説明した。(沼尾) 作業性及び品質向上のため(位置ズレ防止) ・サンプルを提出し、浦部長に確認して頂いた。	浦部長了承された。 実施号機をはっきりさ せること。 前田 2/15 まで 2/8 浦部長宛に発送す る。
		・滝川の宮業マに LED が変更することを見せ るため、サンプルを送って欲しい。	

株式会社ディード

TN-84B05

page 2 of MCM
is omitted.

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Fax Date May 8, 2002

doc.2

PLANNING & DESIGN

TECOM

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MITAKA-CITY TOKYO, JAPAN

TEL&FAX 0422-40-0138

E-Mail nh6k-hzmm@asahi-net.or.jp

Design Check List of Hair Care Development
Hair Care Steamer 開発デザインチェックリスト

【型名/名称】

TG-3600 Atomica Pro

Name of "Moisturizing Hair Dressing Apparatus"

【用途】

・イオン化されたスチームを頭皮に当て、パーマやヘアカラーの効果促進/時間短縮を図る。

【仕様】

・本体 TG-3700 PENOCCHIOをベースとする。

<デザイン変更部>

- 1.脚部
- 2.ボディ部
- 3.カラーリング
- 4.コンパネ部
- 5.本体表示/シール

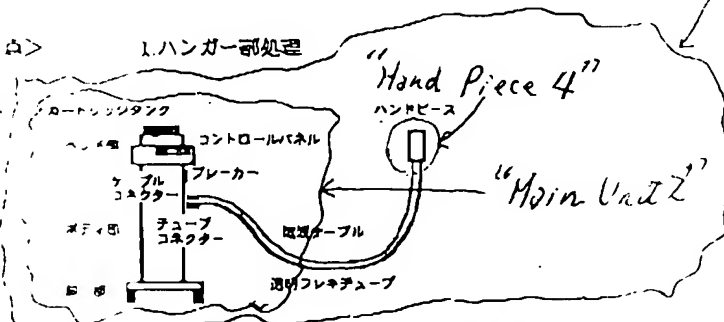
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- 1.ハンドピース

<問題点>

- 1.ハンガー部処理

<構成>



<仕様諸元>

- 1.コントロールパネル

・表示LED

電源

スチーム吐出可

電圧投入で緑色点灯

スチーム吐出温度超過時黄色点灯

水位レベル

温度

> 異常時点灯 赤色

Head Unit

II. ヘッド部

Hand Piece Hangar

III. ハンドピース

2. スチーム吐出 Steam Emission Nozzle 吐出口数 開口箇所

Hand Piece 4

Housed Components Sub-Heater

3. 内蔵部品

-1. サブヒーター

・サイズ

・位置

・温度

Ion Generating Unit

-2. イオン発生ユニット

・サイズ

・位置

・温度

-3. 基板/ヒートシンク/ノイズフィルター等

Operation Switch

4. 操作スイッチ

-1. サブヒータースイッチ

・スイッチ種類

-2. スチーム吐出スイッチ

・スイッチ種類

(モーメンタリー)

Display

5. 表示

-1. ハンドピース通電LED

> 二色LED

-2. サブヒーター通電LED

本体側電圧投入で緑色点灯

サブヒーター電圧投入で黄色点灯

6/6

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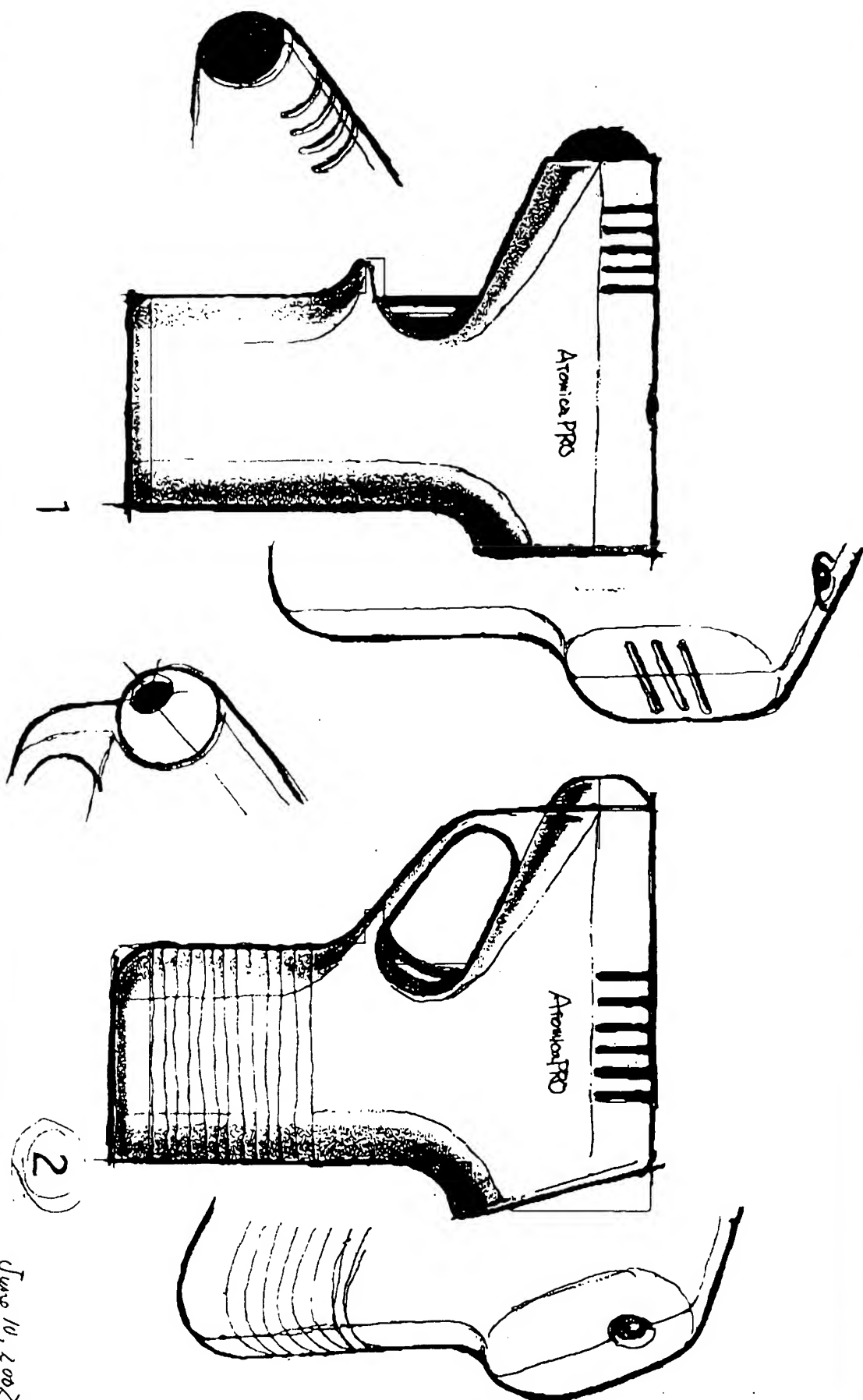
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dec 3-1

■AtomicPRO■

Hand Piece

ハンドピーススタイリंगाイデア B



June 10, 2002

020610

TECOM

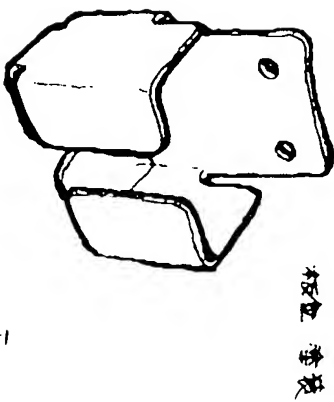
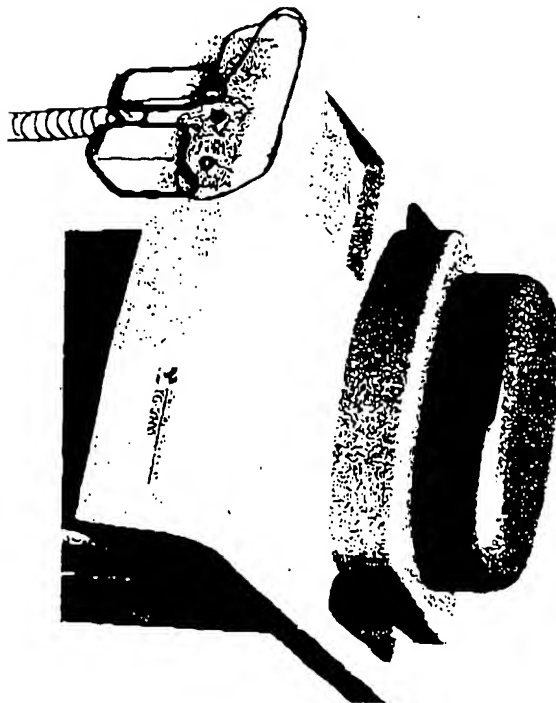
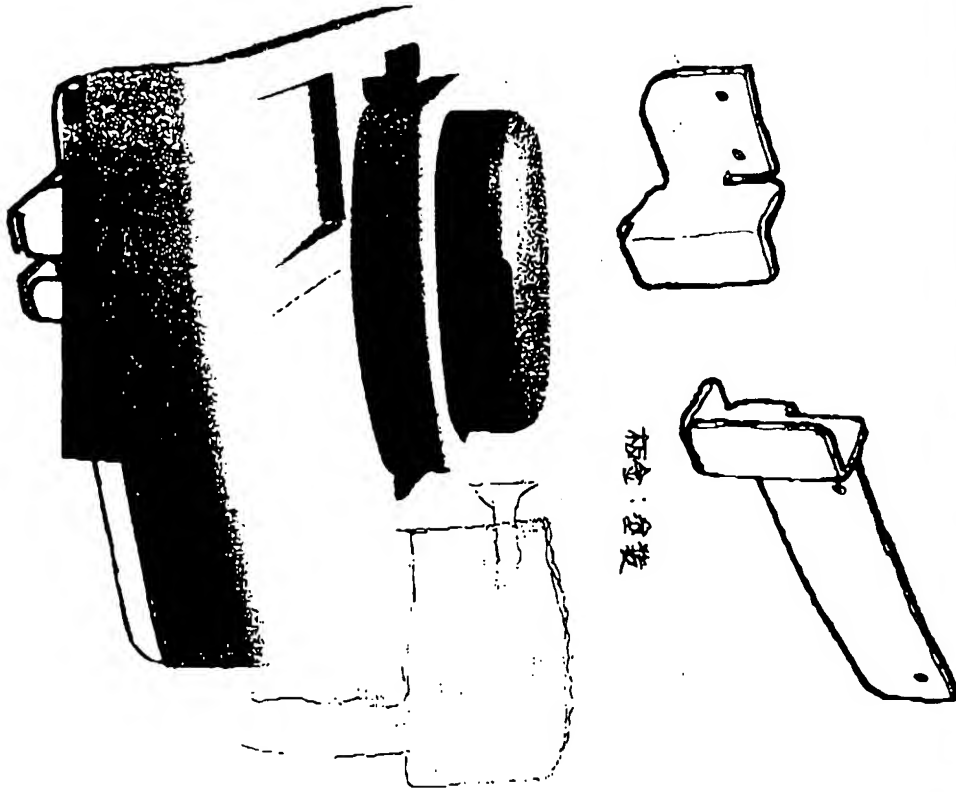
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■AtomicPRO■

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Main Body

本体 頭部処理アイデア



June 10, 2002

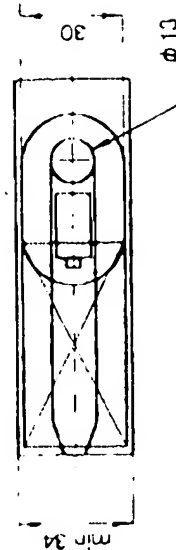
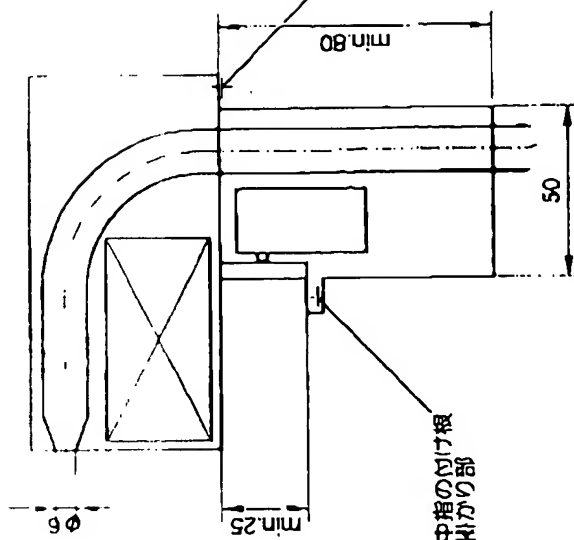
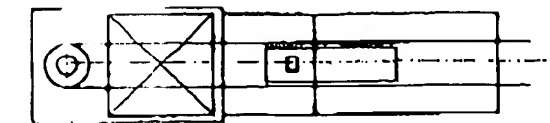
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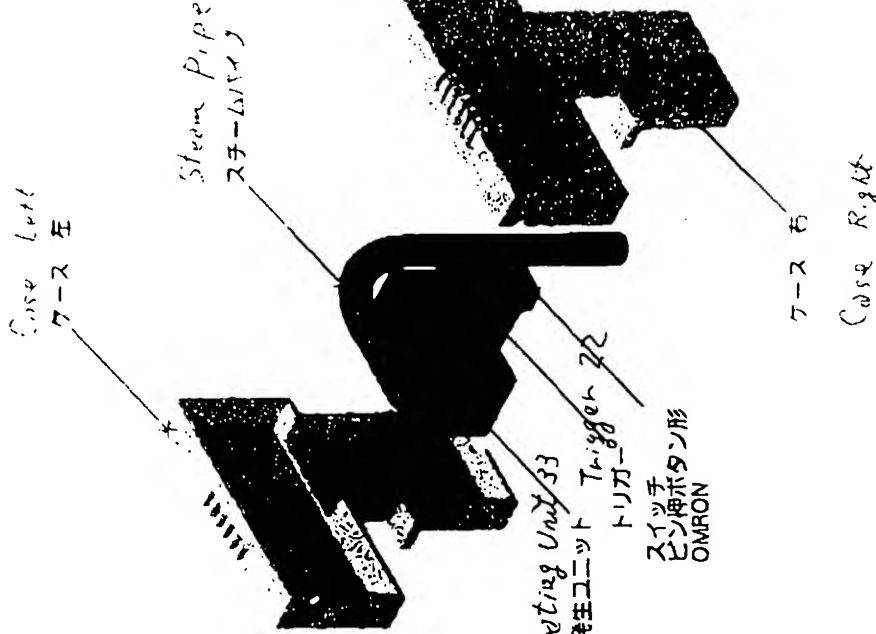
ハンドピース レイアウトアイデア A

Hand Piece (4) Layout Idea A

- レイアウト A



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Date

June 10, 2002

020610

TECOM

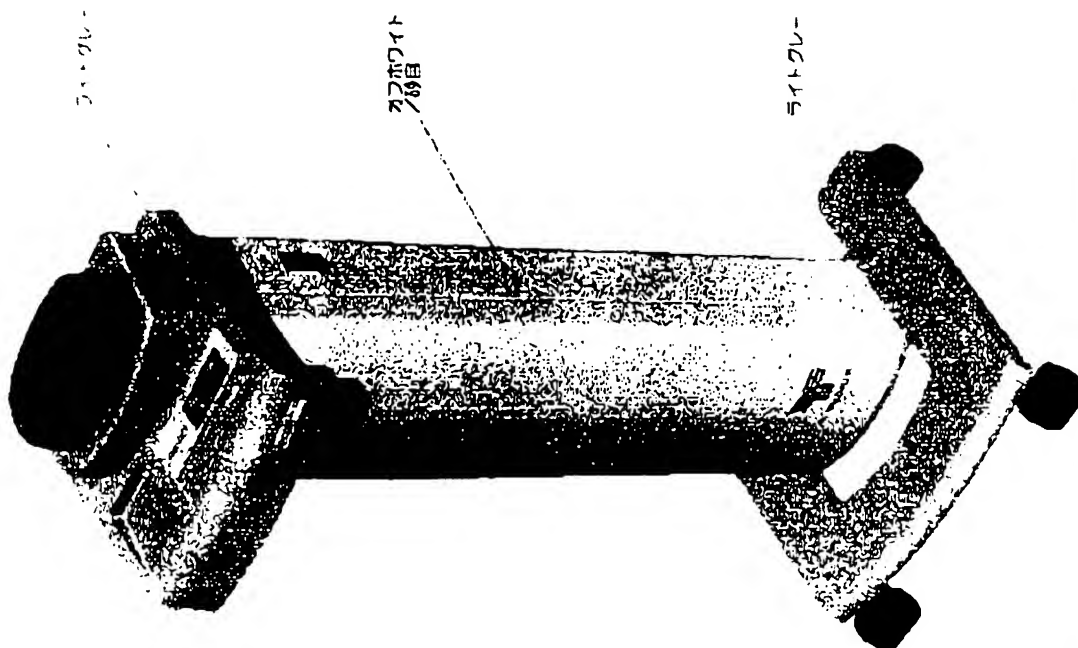
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足/カラーリング デザインアイデア 5

Appearance of Main Unit (2)

■AtomicaPRO■

New Document 20



足はリネラルタイプで、前面の面と角アールはヘッドの
フォルムと統一イメージ。
ボディの前面は、ピッチャイメージとの差別化と
モダンで高級なディストを施す。

bute

June 27, 2002

020627

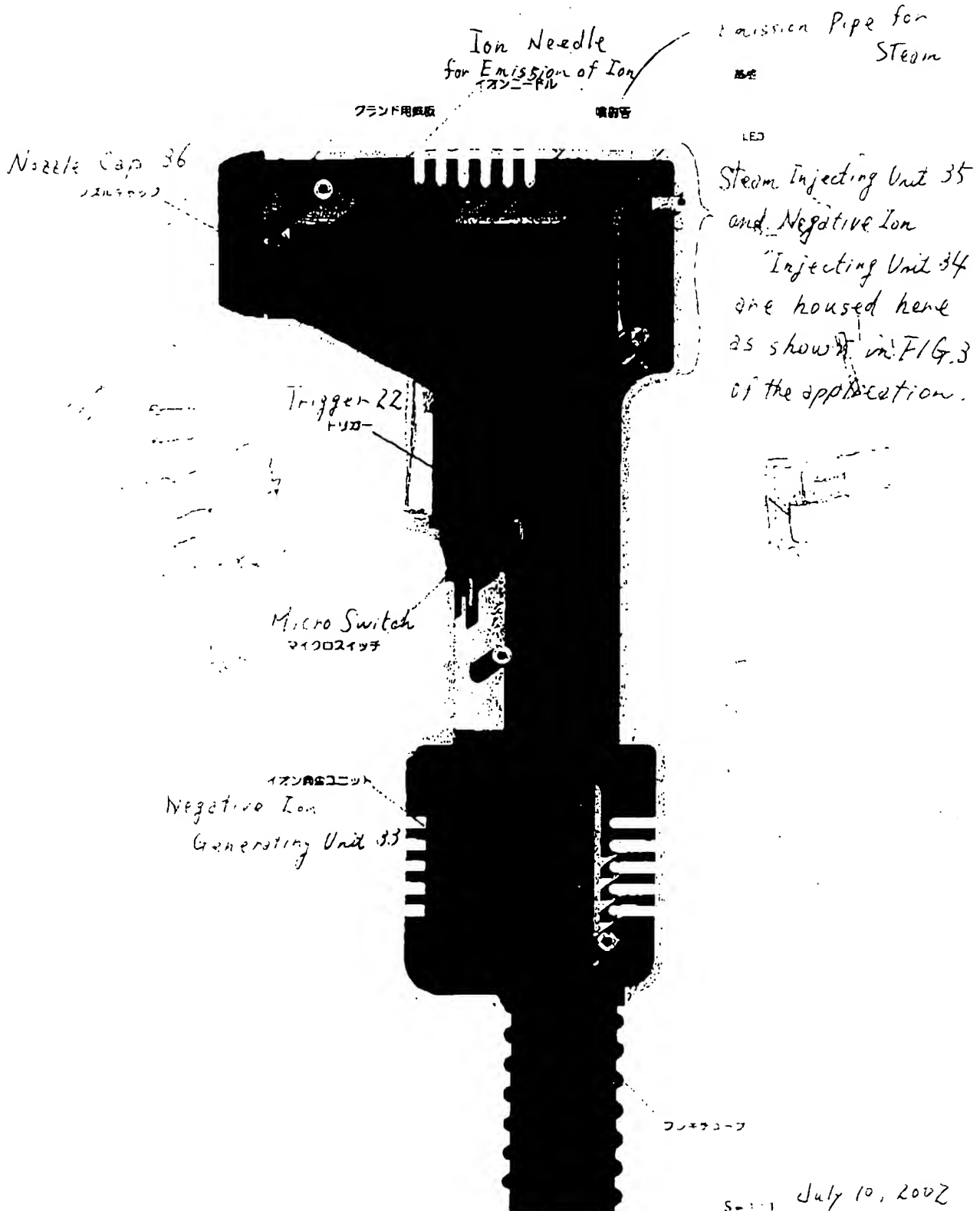
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■AtomicaPRO■ (New Document 3) ハンドピースデザインアイデア「構成」

Updated Design of Hand Piece (4)



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July 10, 2002

S/6

Date

020710

TECOM